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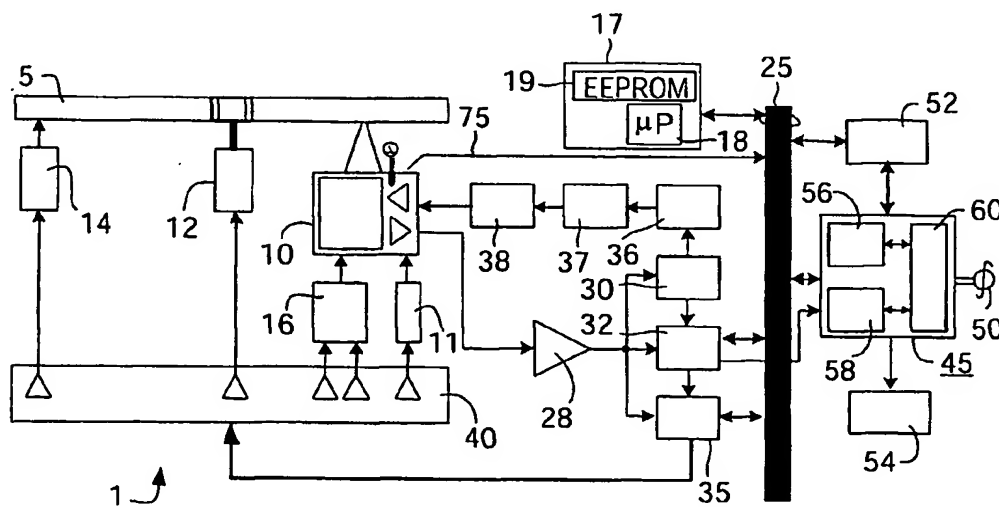
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~~(54) Title: DEVICE FOR RECORDING DATA ON A MEDIUM, METHOD IMPLEMENTED IN SUCH A DEVICE AND RECORDING MEDIUM OBTAINED FROM SAID DEVICE.~~



(57) Abstract: This device intended to record optical discs 5 comprises a control circuit for controlling the power of the recording laser beam 70 which takes a plurality of parameters into account notably the jitter of the recovered written data which is measured during the reading of recorded data which are produced by a reading block 71. Furthermore, the power may be corrected as a function of the temperature inside the laser housing by measuring the threshold current at which the light is switched on. Other parameters used to correct the laser power take into account the scanning velocity of the disc and the amount of disc tilt. Application: Recording for CD (compact disc), DVD (digital versatile disc), BD (Blu-ray Disc).

WO 2003/091935 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/003760 A1 (HONDA KAZUHIKO) 10 January 2002 (2002-01-10) the whole document	1,6
A	EP 1 195 749 A (PIONEER CORP) 10 April 2002 (2002-04-10) the whole document	1-14
P, A	US 2003/012102 A1 (CHIANG JEN-CHENG) 16 January 2003 (2003-01-16) the whole document	1-14
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 762 399 A (RICOH KK) 12 March 1997 (1997-03-12) the whole document ---	1-14
A	GB 2 336 463 A (RICOH KK) 20 October 1999 (1999-10-20) the whole document ---	1-14
X	JP 2001 344751 A (YAMAHA CORP) 14 December 2001 (2001-12-14) the whole document -----	1,6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/ 03/01464

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002003760	A1	10-01-2002	JP	2001331940 A	30-11-2001
			CN	1335594 A	13-02-2002
EP 1195749	A	10-04-2002	JP	2002117542 A	19-04-2002
			EP	1195749 A2	10-04-2002
			US	2002048242 A1	25-04-2002
US 2003012102	A1	16-01-2003	DE	10145929 A1	24-04-2003
			JP	2002334439 A	22-11-2002
US 2002181365	A1	05-12-2002	JP	2001344751 A	14-12-2001
			CN	1335593 A	13-02-2002
EP 0762399	A	12-03-1997	JP	3124721 B2	15-01-2001
			JP	9138946 A	27-05-1997
			EP	0762399 A1	12-03-1997
			JP	2001060321 A	06-03-2001
			JP	2002251732 A	06-09-2002
			US	5790505 A	04-08-1998
GB 2336463	A	20-10-1999	DE	19912189 A1	21-10-1999
			JP	2000155945 A	06-06-2000
			US	6388978 B1	14-05-2002
JP 2001344751	A	14-12-2001	CN	1335593 A	13-02-2002
			US	2002181365 A1	05-12-2002